PATENT APPLICATION Mo5334 LeA 32,322

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF		) ) GROUP NO.: 1616 )
STEFAN DUTZMANN ET AL		
SERIAL NUMBER: TO BE ASSIGNED		) ) ) EXAMINER: A. ROBINSON
FILED:	HEREWITH	)
TITLE:	FUNGICIDE ACTIVE SUBSTANCE COMBINATIONS	) )

## PRELIMINARY AMENDMENT

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

Upon the granting of a Serial Number and Filling Date and prior to the examination of the subject application, please amend the application as follows:

Express wall illaling label fullion
Date of Deposit 4/26/01
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231

Donna J. Veatch
(Name of person-mailing paper or fee)

### IN THE TITLE:

On page 1, line 1, please delete "Fungicidal active compound" and insert --Fungicide active substance- - before "combinations."

After the title and before the first line of specification, please add: — This application is a divisional application of serial number 09/402,866, filed October 13, 1999 - -

### IN THE SPECIFICATION:

On page 19, please delete the paragraph beginning on line 26 and ending on line 30 and replace it with the following:

--The active compound combinations according to the invention are particularly suitable for controlling cereal diseases, such as Erysiphe, Puccinia and Fusarium, and for controlling diseases encountered in viticulture, such as Uncinula, Plasmopara and Botrytis, and furthermore in dicotyledonous crops for controlling powdery and downy mildew fungi and causative organisms of leaf spot.--

# IN THE CLAIMS:

Please cancel Claims 1 through 5.

Please add the following new claims:

- A fungicidal composition comprising an active compound combination comprising
  - (a) a 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]2,4dihydro-[1,2,4]-triazole-3-thione of the formula

$$\begin{array}{c} Cl & OH \\ CH_2 - C & Cl \\ CH_2 & S \\ N & S \end{array} \hspace{1cm} (I),$$

and

- (b) an active compound selected from the group consisting of
  - (1) a triazole derivative of the formula

$$X \xrightarrow{\hspace{1cm} N \hspace{1cm} N \hspace{1cm} N \hspace{1cm} N \hspace{1cm} N \hspace{1cm} N \hspace{1cm} (II),}$$

wherein

X represents chlorine or phenyl, and

(2) a triazole derivative of the formula

$$\begin{array}{c} \text{OH} \\ \text{CI-} \\ \begin{array}{c} \text{OH}_2 - \text{CH}_2 - \text{C}(\text{CH}_3)_3 \\ \text{CH}_2 \\ \text{N} \\ \end{array} \end{array} \\ \text{(III),} \\ \text{(tebuconazole)} \\ \end{array}$$

(3) an aniline derivative of the formula

wherein

R1 represents hydrogen or methyl,

 (4) an N-[1-(4-chloro-phenyl)-ethyl]-2,2-dichloro-1-ethyl-3-methyl-cyclo propane-carboxamide of the formula

(5) a zinc propylene-1,2-bis(dithiocarbamidate) of the formula .

(6) at least one thiocarbamate of the formula

wherein

Me = Zn or Mn or a mixture of Zn and Mn,

(7) an aniline derivative of the formula

(8) a compound of the formula

$$(CH_3)_2CH-O-C-NH-CH-C-NH-CH-CH-CH_3 \qquad \qquad (IX)$$

(9) a benzothiadiazole derivative of the formula

$$H_3CS-C \bigvee_{O} \bigvee_{N} \bigvee_{N} (X)$$
 (bendicar)

(10) an 8-t-butyl-2-(N-ethyl-N-n-propyl-amino)-methyl-1,4-dioxaspiro[5,4]decane of the formula

-5-

$$(CH_3)_3C \longrightarrow C_2H_5 \qquad (XI)$$

$$CH_2-N < C_2H_5 \\ C_3H_7-n$$
(spiroxamine)

# (11) a compound of the formula

# (12) a compound of the formula

$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_2 \\ \text{H}_3 \text{CO} \\ \text{C} \\ \text{N}' \\ \text{OCH}_3 \\ \text{(kresoxim-methyl)} \end{array}$$

# (14) a dicarboxamide of the formula

$$\begin{array}{c|c} CI & O & CH_3 \\ \hline \\ CI & O & CH_3 \end{array} \qquad (XV)$$

(15) a pyrimidine derivative of the formula

wherein

R<sup>2</sup> represents methyl or cyclopropyl,

(16) an aniline derivative of the formula

(17) a morpholine derivative of the formula

$$\begin{array}{c|c} O & & & \\ \hline O & & \\ O & & \\ \hline O & & \\ \hline$$

(18) a phthalimide derivative of the formula

(19) a phosphorus compound of the formula

$$\begin{bmatrix} H_{5}C_{2}O \\ H \end{bmatrix}_{3} AI$$
 (XX)

(20) a phenylpyrrole derivative of the formula

wherein  $R^3$  and  $R^4$  each represent chlorine or together represent a radical of the formula -O-CF<sub>2</sub>-O-,

(21) a 1-[(6-chloro-3-pyridinyl)-methyl]-N-nitro-2-imidazolidineimine of the formula

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(22) a phenylurea derivative of the formula

$$CI \longrightarrow CH_2-N \longrightarrow C-NH \longrightarrow (XXIII)$$

(23) a benzamide derivative of the formula

(24) a guanidine derivative of the formula

$$R^{5}$$
—  $NH$ — $(CH_{2})_{8}$ — $\begin{bmatrix} R^{5} \\ N$ — $(CH_{2})_{8} \end{bmatrix}$   $\begin{bmatrix} R^{5} \\ N$ — $H$  (XXV)

wherein

m represents an integer from 0 to 5 and

R5 represents hydrogen or the radical of the formula

wherein the hydrogen is present in an amount between 17 to 23 % of the total R<sup>5</sup> groups and the radical of the formula

is present in a ratio of between 77 and 83% of the total R3 groups.

- 7. A composition according to Claim 6 comprising active compound combinations wherein a weight ratio of active compound of the formula (I) to
  - active compound (1) between 1:0.1 and 1:20.
  - active compound (2) between 1:0.1 and 1:20.
  - active compound (3) between 1:0.2 and 1:150,
  - active compound (4) between 1:0.1 and 1:10.
  - active compound (5) between 1:1 and 1:50.
  - active compound (6) between 1:1 and 1:50.
  - active compound (7) between 1:0.1 and 1:50.
  - active compound (8) between 1:0.2 and 1:50.
  - active compound (9) between 1:0.02 and 1:50.
  - active compound (10) between 1:0.1 and 1:50,
  - active compound (11) between 1:0.1 and 1:50.
  - active compound (12) between 1:0.1 and 1:50,
  - active compound (14) between 1:0.1 and 1:50,
  - active compound (15) between 1:0.1 and 1:50.
  - active compound (16) between 1:1 and 1:50.
  - active compound (17) between 1:1 and 1:20.
  - active compound (18) between 1:1 and 1:50,
  - active compound (19) between 1:1 and 1:50.
  - active compound (20) between 1:0.1 and 1:10,
  - active compound (21) between 1:0.05 and 1:20,
  - active compound (22) between 1:0.1 and 1:10,
  - active compound (23) between 1:0.1 and 1:10, and
  - active compound (24) between 1:0.1 and 1:10 is present.

- 8. A method for controlling fungi comprising applying active compound combinations according to Claim 6 to the fungi and/or their habitat.
- A process for preparing fungicidal compositions comprising mixing active compound combinations according to Claim 6 with extenders and/or surfactants.--

## REMARKS

Applicants respectfully request entry of their preliminary amendment. An action on the merits is respectfully requested.

Respectfully submitted,

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Joseph C. Gil

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### **VERSION WITH MARKINGS TO SHOW CHANGES**

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## IN THE CLAIMS:

Please cancel Claims 1 through 5.

Please add the following new claims:

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- (a) a 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]2,4-Mo5334 -13-

dihydro-[1,2,4]-triazole-3-thione of the formula

$$\begin{array}{c} Cl & OH \\ \longrightarrow CH_2 - C & \longrightarrow Cl \\ \longleftarrow CH_2 & S \\ \longleftarrow NH & S \end{array} \tag{1},$$

and

- (b) an active compound selected from the group consisting of
  - (1) a triazole derivative of the formula

$$X \longrightarrow O - CH - Y - C(CH_3)_3$$

$$N \longrightarrow N$$
(II),

wherein

X represents chlorine or phenyl, and

(2) a triazole derivative of the formula

$$\begin{array}{c} \text{OH} \\ \text{CI} & \begin{array}{c} \text{OH} \\ \end{array} \\ \text{CH}_2 \text{CH}_2 \text{C} \\ \text{CH}_2 \\ \end{array} \\ \begin{array}{c} \text{CH}_3 \\ \text{CH}_2 \\ \end{array} \\ \begin{array}{c} \text{(III)}, \\ \text{(tebuconazole)} \end{array}$$

(3) an aniline derivative of the formula

$$R^{1} = N = S = CCI_{2}F$$

$$SO_{2} = N(CH_{3})_{2}$$
(IV),

wherein

R<sup>1</sup> represents hydrogen or methyl,

(4) an N-[1-(4-chloro-phenyl)-ethyl]-2,2-dichloro-1-ethyl-3-methyl-cyclo propane-carboxamide of the formula

(5) a zinc propylene-1,2-bis(dithiocarbamidate) of the formula

(6) at least one thiocarbamate of the formula

wherein

Me = Zn or Mn or a mixture of Zn and Mn.

(7) an aniline derivative of the formula

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

(8) a compound of the formula

$$(CH_3)_2CH-O-C-NH-CH-C-NH-CH-CH-CH_3$$

(9) a benzothiadiazole derivative of the formula

(10) an 8-t-butyl-2-(N-ethyl-N-n-propyl-amino)-methyl-1,4-dioxaspiro[5,4]decane of the formula

$$(CH_3)_3C \xrightarrow{O} CH_2 \xrightarrow{N} C_2H_5 \tag{XI}$$

$$(Spiroxamine)$$

(11) a compound of the formula

(12) a compound of the formula

(14) a dicarboxamide of the formula

$$\begin{array}{c|c} CI & CH_3 \\ \hline \\ CI & CH_3 \end{array} \qquad (XV)$$

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wherein

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(16) an aniline derivative of the formula

(17) a morpholine derivative of the formula

$$\begin{array}{c|c} O & CI \\ \hline O & CH = C \\ \hline (dimetomorph) & OCH_3 \\ \hline OCH_3 & CI \\ \hline \end{array}$$

(18) a phthalimide derivative of the formula

(19) a phosphorus compound of the formula

$$\begin{bmatrix} H_5C_2O \\ H \end{bmatrix}_3 AI (fosetvi-AI)$$

(20) a phenylpyrrole derivative of the formula

$$\begin{array}{c} \mathbb{R}^3 \\ \mathbb{R}^4 \\ \mathbb{C}^N \\ \mathbb{H} \end{array}$$

wherein R³ and R⁴ each represent chlorine or together represent a radical of the formula -O-CF₂-O-,

(21) a 1-[(6-chloro-3-pyridinyl)-methyl]-N-nitro-2-imidazolidineimine of the formula

$$\begin{array}{c} & & \\ & & \\ \text{CI} & & \\ & &$$

(22) a phenylurea derivative of the formula

$$CI \longrightarrow CH_2-N \longrightarrow C-NH \longrightarrow (XXIII)$$

(23) a benzamide derivative of the formula

#### (24) a quanidine derivative of the formula

$$R^{5}$$
—  $NH$ — $(CH_{2})_{8}$ — $\begin{bmatrix} R^{5} \\ N$ — $(CH_{2})_{8} \end{bmatrix}$  $\begin{bmatrix} R^{5} \\ N \end{bmatrix}$ — $H$  (XXV)

x (2 + m) CH<sub>3</sub>COOH

wherein

m represents an integer from 0 to 5 and

R<sup>5</sup> represents hydrogen or the radical of the formula

wherein the hydrogen is present in an amount between 17 to 23 % of the total R<sup>5</sup> groups and the radical of the formula

is present in a ratio of between 77 and 83% of the total R³ groups.

- A composition according to Claim 6 comprising active compound combinations wherein a weight ratio of active compound of the formula (I) to
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- active compound (24) between 1:0.1 and 1:10 is present.
- 8. A method for controlling fungi comprising applying active compound combinations according to Claim 6 to the fungi and/or their habitat.
- A process for preparing fungicidal compositions comprising mixing active compound combinations according to Claim 6 with extenders and/or surfactants --

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